

pril 9, 1956

50 Cents

Fairchild C-123

Gives USAF Wings

To Army GI



The Anti-Missile Missile:

Is Effective ICBM Defense Possible?



FOR 3000 PSI PNEUMATIC SYSTEMS SOLENOID VALVES REGULATORS INTERLOCK VALVES

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CONSTRUCTIONS . . . New 'rep-man'

Automotive and Alecraft Division AMERICAN CHAIN & CARLE

### AVIATION CALENDAR











Machinetic Motor with Anh Donnue Flew Coethell

### AIRBORNE HYDRAULIC VALVE

#### Production" Facility at El Segundo Division

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Design, Development, Testing and Alexander Belging at H Segunda Devision of Victory Incorporated.









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Specialists in Aircraft Leading Geor

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#### Private planes, too. made with MAGNESHIM

reads with respective for eater lightness . . . sales rigidly







you can depend on DOF MACNESHIM







#### ANNOUNCING NEW SPERRY

### FLIGHT CONTROL SYSTEM





SP-30 designed for new Jet

Sperry's experience in designing and brokking flight control systems for notice-or arrand has consider Sperry segment to design for new SP-O Highs Convol Sprane to reast the requirement of the new Sperry segment to the sperry sign. This system has do not neededly new concept of flight verbidlia 1946 Sperry introduced in new-framewo.

> nue, Blis system has been restalled in hundreds of C-3s, DC-4s. Creenins: Statemeners: DC-58s ad DC-7s, and la radiaty use by most of the major them.

alreads By working is close cooperation with the military and the design proups of basing, Douglas and Lockheed. Sperry developed flight control systems for the B-12, B-12 ABD and the C-130. Thomasis of them stored are being forest roday by those flight control systems.

engineers have now dissipand the SP-50 to goest the mech of tocastion is jet and tatho-peop commenccial arthres. For darbar information, write our Aeronistical Equipment Division.



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Beyond the Point-of-No-Return...

A New Meaning for Dependability



Regardless of the plane or the mission, rugged dependability means everything beyond the point of to missro.

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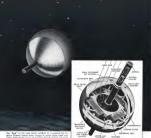
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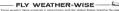
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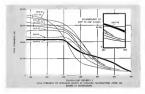
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#### A new Alcoa® Allov for high-temperature aircraft applications



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ANIATION WITE, April 5, 1996

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#### EDITORIAL

#### Airpower Budget Issues Are Clear

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It was also enacle often that USAF's research and do

#### Vulnerability Increased

# STRONG AS STEEL... but 40% lighter!



#### Shatterproof air-storage spheres by Kidde!

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### INDUSTRY OBSERVER

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AVIATION WEEK, April 9, 1906

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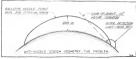


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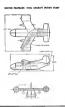
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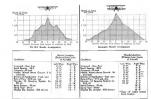
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#### AIR TRANSPORT

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#### Airlines Report Big Increases In Traffic Revenues for 1955

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#### Airline Income and Expenses - January

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## APRIL 23rd

## AIR TRANSPORT **Facts and Figures**

(PUBLISHED BY THE AIR TRANSPORT ASSOCIATION)

AVIATION WEEK has been efficiently designated to resume the publication of "Air Transcent Facts and Figures," published by the Air Transport Association. This editorial feature will appear in our April 23rd issue and will provide an impressive picture of the tremendous propress achieved by the corriers during the next weer, A.T.A. is to be congratulated on making this vitally important editorial feature again grailable to AVIATION WEEK, thus insuring a would expanded audience and a world wide impact

> AVIATION WITH oursons not poid ARC circulation have December 1955. 54,548. Pold circulation of current issues: 57,300. Recent readership research by Advertising Research Econdoline shows 1.4 regulars for every subscriber copy of AVIATION WEEK (readership determined by personal interview using strict recognition test). Covered order order AO.ATO copies.

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#### LETTERS

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Sikorsky rotor heads stress ESNA

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How many different stresses are exerted on this rotor head as it countrols the cyclic and collective pinch of the five main blades of the Sikorsky S56 designed to transport 26 fully equipped troops? Since it also transforms engine power into forward motion or vertical flight, the stresses add up to an interesting but complicated problem in dynamics. Notice that Sikorsky has been been supported by the stresses and the stresses and with the fasterning problems related to this rotor head design with the stateming problems related to this rotor head design with the stateming problems related to this rotor head design with the stateming problems related to this rotor head design.

They are self-locking, maintain precision adjustments and

assure fastener security under the vibration and stress loads normal to helicopter flight. Sikorsky Aircraft Company had been using Elastic Stop nuts

for over a decade before it began developing rotary wing aircraft in 1939. They have been a steady ESNA customer for 27 years and Elastic Stop nuts have been a standard fastener on every new Sikorsky design.

If you recognize the practical value of almost three decades of "flight tested" experience on all types of air frames and engines . . . you'll rely on Elastic Stop® nuts.



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